

APPLICATION NO.

09/588,049

P.O. BOX 19928

25944

United States Patent and Trademark Office

FILING DATE

06/06/2000

7590 OLIFF & BERRIDGE, PLC

ALEXANDRIA, VA 22320

05/11/2004

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. MASAKI KYOJIMA 106406 8128 EXAMINER LANIER, BENJAMIN E ART UNIT PAPER NUMBER

> 2132 DATE MAILED: 05/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/588,049	KYOJIMA ET AL.
	Examiner	Art Unit
	Benjamin E Lanier	2132
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status		
1) Responsive to communication(s) filed on <u>07 April 2004</u> .		
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
 4) Claim(s) 1.3-10 and 12-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1.3-10 and 12-32 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 		
Application Papers		
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 06 June 2000 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 		
Priority under 35 U.S.C. §§ 119 and 120		
12) △ Acknowledgment is made of a claim for forei a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the pr application from the International Bure * See the attached detailed Office action for a li 13) ☐ Acknowledgment is made of a claim for domes since a specific reference was included in the s 37 CFR 1.78. a) ☐ The translation of the foreign language p 14) ☐ Acknowledgment is made of a claim for domes reference was included in the first sentence of	ents have been received. Ents have been received in Applicationity documents have been received in Applicationity documents have been received (PCT Rule 17.2(a)). Ents of the certified copies not received in the certified copies not received in the specification of the specification provisional application has been restic priority under 35 U.S.C. §§ 1.	ation No ived in this National Stage ived. 9(e) (to a provisional application) or in an Application Data Sheet. eceived. 20 and/or 121 since a specific
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)

Application/Control Number: 09/588,049 Page 2

Art Unit: 2132

DETAILED ACTION

Response to Amendment

1. Applicant's amendment of claims 1, 6, 9, 10, 15, 18, 19, 22, 25, 30 has been fully considered and is entered.

Response to Arguments

2. Applicant's arguments, see paper 7, filed 07 April 2004, with respect to the rejection(s) of claim(s) 1-32 under Boebert have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Boebert, in view of Deo.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claims 1, 3, 4-10, 12-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boebert, U.S. Patent No. 5,502,766, in view of Deo, U.S. Patent No. 6,496,928. Referring to

Application/Control Number: 09/588,049

Art Unit: 2132

claims 1, 2, 5, 6, 8-10, 12, 14, 15, 17-27, 29-32, Boebert discloses a data enclave system wherein a workstation user's ID and PIN, stored in the memory of their Personal Keying Device (datafor-second-checking memory unit), is used to generate an encryption key (Col. 10, lines 22-34), which meets the limitation key generation unit for generating an encrypting key from data stored in the data-for-secondary-checking memory unit. The generated encryption key is the used to encrypted the access vector and media key that is stored in the storage search logic (data-formain-checking memory unit)(Col. 13, lines 42-57), which meets the limitation of an encryptor for encrypting data stored in the data-for-main-checking memory unit with the encrypting key generated by the encrypting key generation unit. Authentication protocols are executed with the use of two pseudo random number sequences (Col. 26, lines 44-47). The enciphered Media key and access vector pair arrives at the Crypto Media Controller and the Media ID is used as an index to store the enciphered pair packet in the Personal Keying Device of the user. The media can now be identified and the individual Personal Keying Device contains a media key which can only be used by someone who has physical possession of that Personal Keying Device, knows that individuals PIN, and has the Media of controlled by a Crypto Media Controller containing the enclave key (Col. 13, line 64 – Col. 14, line 13), which meets the limitations of the data verification between units. Boebert discloses that keys can be stored in a database (key memory) for later use (Col. 26, lines 8-13). Boebert does not disclose that the stored keys can be used to generate new keys. Deo discloses the use of old keys that are hashed with other data (data for secondary checking memory unit) to generate new encryption keys (Col. 24, lines 32-54), which meets the limitation of the encryption key generation unit also uses the previous key stored in the previous key memory unit in generating the encrypting key. It would have been

Application/Control Number: 09/588,049

Art Unit: 2132

Page 4

obvious to one of ordinary skill in the art at the time the invention was made to use the old keys of Boebert to generate new keys in the manner of Deo in order to increase the difficulty of the key becoming compromised as disclosed in Deo (Col. 24, lines 57-68).

Referring to claim 4, 13, Boebert discloses that digital signatures can be used in the data enclave system (Col. 23, lines 50-53).

Referring to claims 7, 16, 28, Boebert discloses using symmetric encryption (Col. 9, lines 22 – Col. 10, line 10).

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin E Lanier whose telephone number is 703-305-7684. The examiner can normally be reached on M-Th0 7:30am-5:00pm, F 7:30am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (703)305-1830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Benjamin E. Lanier

GILBERTO BARRON

TECHNOLOGY CENTER 2100